**ELECTRONIC LOAD 10A 30V MAX, 170240**

# Original ZHIYU® Multifunction 60W / 110W 9.99A 30V Constant Current Electronic Load Aging Battery Power Capacity Tester Module



**Description::**

Simple and versatile electronic load. Automatic memory function with all parameters, is well suited for automated assembly of the power adapter aging cabinet.Power supply requirement: DC12V voltage (actual voltage 11-14V) current is not less than 0.5A of power, the power will be displayed inappropriate " Err6"

**Note:** The default power adapter is not included.

**Feature:** Operating modes: single mode constant current (CC)
Discharge current: 0.20-9.99A stepper 0.1A or0.01A
Discharge current maximum error: 0.7% +-0.01A
The maximum capacity test error: 0.5A 2.5%, 2A 1.5%, 5A and above 1.2%
Offline (termination) Voltage Range: 1.0-25.0V stepping 1V or 0.1V
Discharge voltage: 1.00-30.00V
The maximum voltage measurement error: 1% + - 0.02V
Maximum power: 60W super power automatically limits the maximum current
(for example, up to 60W when it can open 9.99A 6V and 20V maximum at the only open 3.00A)
Highest battery test statistic: 999.9Ah or 9999Wh, achieve value stop testing (first value to those who stop condition)
Board size: 60W: 112 x 70 x 57 mm (fan prominent board about 12mm); 110W:
122 x 70 x 77 mm (fan prominent board about 22mm)
Weight:60W: 170g; 110W: 270g
Positioning hole locations: 60mm x 88mm, diameter 3.2mm, 5mm pedestal already installed.
Fan control: intelligent fan control (according to the radiator fan can be infinitely variable automatic temperature)
Protection: Overheat protection "otP", transient overpower protection "oPP", overpressure protection "ouP", reverse polarity protection, power supply voltage abnormal protection.

**Instructions:**

**A: Mode settings ( default factory for electronic load mode ):**

Hold down the start-stop button ( red button ) to the tester simultaneously energized until the key is released showing Fun * When, by rotating the knob to change the setting, "Fun1" for electronic load mode, "Fun2" battery capacity test mode. Push button start and stop at the buzzer after entering the settings, also set "bEon" buzzer by turning the knob to open or "bEoF" buzzer closes After setting press the button again to start and stop at the tester restart.
Setting Digital Illustration:

**B: Electronic Load mode:**

1. Turn on the power supply 12V boot into electronic load mode , ensuring in a stopped state ("RUN" does not light, otherwise the press of the start-stop switch to turn off the load ) connected to the power supply under test to the test port input power (P + P - ), pay attention not to take the wrong polarity!
2. Set current and lower voltage knob, turn the knob to set the value of the current setting position, then press the knob to change the setting digit, digital middle two digits to the right of the indicator and digital indicator VA simultaneously determine the current set position.
3. Press the start-stop switch, load began to run, "RUN" lights, power is applied to the circuit under test is set to enter the discharge current, while the upper display the actual input load voltage, when the voltage drops below the set limit voltage " RUN " LED flashes and short beep alarm buzzer accompanied.
4. The test procedure can be modified at any current, and if you need to modify the lower voltage to stop the load can modify.

**Note:** When in alarm state, can only transfer a small current does not increase! Tester automatic power-down feature to save enough to save the set parameters and run state, when the state again after power transmission will complete before the power failure and restore data.

**C: The battery capacity test mode:**

1. The test battery should be fully charged with a special charger!
2. Give the tester is powered into the battery capacity test mode, connect the battery current line to P + P- positive and negative terminals, if you use four-wire clamp test, while the four-wire interface to the positive and negative voltage test fixture is connected to V + V - port.
3. Turn the knob to set the discharge current and discharge voltage ( referring to two specific methods : 2 Description ), one press after setting the start and stop switch, a battery tester and a first line detection, automatic identification 2-4 line ( 2-wire line identification presentation JS-2,4 identification JS-4, if an error please stop the test and check the wiring ), then enter the test, if the fault code appears, refer to later explain.
4. The testing process will round up digital noticeable battery voltage, current, and the current discharge capacity Ah discharge energy Wh, when the discharge end ( battery voltage is below the set voltage ), the tester displays the data stays in Ah and blink rapidly , with bee shortness buzzer alarm.
5. Press the start and stop at the knob or switch to stop the alarm, you can turn the knob to view the battery discharge data, including discharge capacity Ah, Wh and discharge energy platform voltage V, start-stop button is pressed again, clear the data back to the initial setting interface before testing the next section batteries.

**Additional information:**

1. Battery test process can adjust the discharge current, if you need to re- adjust the termination voltage, you can pause by pressing the switch at the start and stop the discharge modification ( pause discharge will return to the settings page, this time discharge data is not lost , if necessary, you can long press clears the data until the start-stop switch 0.000Ah).
2. Tester automatic storage can record setting parameters, and record all parameters and status at the end of the test process and test power failure alarm status, re- transmission of all automatically restored.

**Fault protection codes and meanings:**

**Err1:** ultra-high capacity test the battery voltage.
**Err2:** battery voltage is below the set termination voltage is not connected to the battery or the battery is reversed.
**Err3:** line resistance is too large or the battery can not afford to set the discharge current.
**Err4:** circuit failure.
**Err6:** working power is inappropriate, use a standard 12V power supply, and the supply current is not less than 0.5A.
**otP:** overheating protection.
**Ert:** temperature sensor failure or the temperature is too low.
**ouP:** ultra-high voltage electron -load mode .
**oPP:** under ultra-high power electronic load mode instantly.

**Package included:**

1 x Multifunction constant electronic load module

**Feedback: (limitations)**

1) In Mode “Fun1”1 the Device is a standard digital Load.
The Maximum current draw can be set.
The Minimum Voltage Level can be set, and when the input voltage drops below this level a buzzer sounds.
The device Start to draw the current when the Start button is pressed and continues to draw the current even when the Minimum Voltage is reached.
Not Cutting of at the minimum level here is good, as this may be required for certain test applications.

2) In Mode “Fun2” the device is a battery capacity tester.
The Maximum current draw can be Set.
The Minimum Voltage Level can be set, and when the input voltage drops below this level a buzzer sounds.
The Device Start to draw current immediately when it is set into “Fun2” mode !!!!!!!!!!!!!!!!!!!
The Start Button Only starts the Display and Calculation of the Battery Capacity.
When the Input voltage drops below the Set Level, the device continuous to draw current at the set level.

**THIS IS THE BIG PROBLEM THAT I HAVE WITH THE DEVICE. IT WILL DESTROY YOUR BATTERIES AS IT DOES NOT CUT OUT AT A MINIMUM VOLTAGE LEVEl**
**ANOTHER ISSUE IS THAT IN THIS “Fun2” MODE IT IS DANGEROUS AS IT APPLIES A LOAD TO THE BATTERY EVEN WHEN IT HAS NOT BEEN “Started”**

**60W Test images:**













